

Experiments Envision Use Of Earth's Heat For Fuel

Some day you may heat your home with heat pumped out of the earth.

That is one of the possibilities of the heat pump research project being conducted by the Southern Research Institute. The project is sponsored by 14 electric utilities, including the Nantahala Power and Light company, through the Southeastern Electric Exchange, J. E. S. Thorpe, Nantahala president, explained this week.

The subject of many articles over the past 15 years and just on the verge of development for general use shortly before the outbreak of the war, the heat pump, which uses no fuel, is one of those post-war products that the householder will be able to buy during 1947, it was said. It is a single device which will both heat his home in winter and cool it in summer. It is estimated that about 8,000 units will be built in 1947.

Basically, the heat pump is an enlarged version of the household refrigerator, whose mechanism is a heat pump

which removes heat from the inside of the refrigerator.

The residence-size heat pump is so constructed that it will either pump heat out of, or into, the house.

The earth is a possible source of heat that is adaptable to efficient heat pump throughout the southeast, it is explained. The earth temperatures at a depth of 30 feet vary from about 57 degrees F. in Virginia to 70 degrees F. on the upper Gulf coast. This ground temperature in Western North Carolina is about 61 degrees. For homes there are possibilities of drilling wells from which earth heat is extracted for home use.

Says Control Of Parasites Good Business

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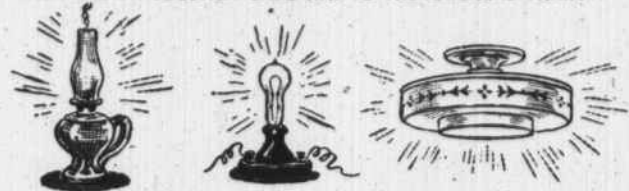
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the control of mites, lice, and other parasites that prey upon farm animals during the winter, says Dr. C. D. Grinnells, veterinarian for the Agricultural Experiment station at State college.

These parasites not only de-vitalize the animals, causing lower production, but they also put the animals in such an un-thrifty condition that they are subject to many diseases. And here's another reason why hog lice should especially be controlled; hog lice can carry swine pox.

Now what are some of the things that can be done to correct this situation? Dr. Grinnells suggests that all old bed-

ding be cleaned out regularly and that the quarters be dis-infected from time to time.

Then, hog lice and mange can be controlled by dipping, the use of insecticides and proper follow-up treatments.

Lice, grubs, and the other parasites of cattle, which cut heavily into production, also need to be controlled.

Sheep are especially subject to parasites, both external and internal. Sheep scab mites and sheep ticks can be killed by a program of dipping and sanitation.

Dr. Grinnells says that parasite control with livestock pays real dividends in more pork and beef, more milk and butter, better breeding stock, and larger net profits to the grower.

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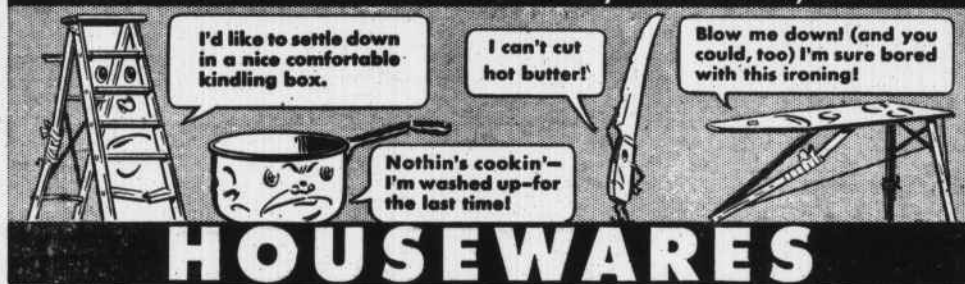
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